| Sl. No | Description | Unit | Dimensions | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L. | B. | D | | | |
| 18 | KSRRB 500-7. Providing and applying **Tack Coat** on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface ) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (I-21.7, P-176 of KPWD SR 2013-14) | | | | | | | | |
| | Asphalt Road | **Sqm** | 1 | 2000.00 | 0.45 | | 900.00 | | |
| | Asphalt Cross Cutting | | 320 | 7.50 | 0.45 | | 1080.00 | | |
| | | | | | | **Total** | **1980.00** | **17.93** | **35497.00** |
| | Basic Rate | **16.60** | | | | | | | |
| | Area weightage @ 8% | 1.33 | | | | | | | |
| | Total | **17.93** | | | | | | | |
| 19 | KSRRB M500-18. Providing and laying **Semi Dense Bituminous Concrete** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. 25-30mm compacted thickness with 5% bitumen 60/70 grade (Grading II) (I-21.20.2, P-178 of KPWD SR 2013-14) | | | | | | | | |
| | Asphalt Road | **Cum** | 1 | 2000.00 | 0.45 | 0.03 | 22.50 | | |
| | Asphalt Cross Cutting | | 320 | 7.50 | 0.45 | 0.03 | 27.00 | | |
| | | | | | | **Total** | **49.50** | **9767.52** | **483492.00** |
| | Basic Rate | **9044.00** | | | | | | | |
| | Area weightage @ 8% | 723.52 | | | | | | | |
| | Total | **9767.52** | | | | | | | |
| 20 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix **M10** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (I-4.2 P-12 of KPWD SR 2013-14) | | | | | | | | |
| | Concrete Road | **Cum** | 1 | 195.0 | 0.45 | 0.10 | 8.78 | | |
| | Concrete Cross Cutting | | 70 | 7.0 | 0.45 | 0.10 | 22.05 | | |
| | | | | | | **Total** | **30.83** | **4497.12** | **138624.00** |
| | Basic Rate | **4164.00** | | | | | | | |
| | Area weightage @ 8% | 333.12 | | | | | | | |
| | Total | **4497.12** | | | | | | | |

| Sl. No | Description | Unit | Dimensions | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L. | B. | D | | | |
| 18 | KSRRB 500-7. Providing and applying **Tack Coat** on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface ) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (I-21.7, P-176 of KPWD SR 2013-14) | | | | | | | | |
| | Asphalt Road | **Sqm** | 1 | 2000.00 | 0.45 | | 900.00 | | |
| | Asphalt Cross Cutting | | 320 | 7.50 | 0.45 | | 1080.00 | | |
| | | | | | | **Total** | **1980.00** | **17.93** | **35497.00** |
| | Basic Rate | **16.60** | | | | | | | |
| | Area weightage @ 8% | 1.33 | | | | | | | |
| | Total | **17.93** | | | | | | | |
| 19 | KSRRB M500-18. Providing and laying **Semi Dense Bituminous Concrete** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. 25-30mm compacted thickness with 5% bitumen 60/70 grade (Grading II) (I-21.20.2, P-178 of KPWD SR 2013-14) | | | | | | | | |
| | Asphalt Road | **Cum** | 1 | 2000.00 | 0.45 | 0.03 | 22.50 | | |
| | Asphalt Cross Cutting | | 320 | 7.50 | 0.45 | 0.03 | 27.00 | | |
| | | | | | | **Total** | **49.50** | **9767.52** | **483492.00** |
| | Basic Rate | **9044.00** | | | | | | | |
| | Area weightage @ 8% | 723.52 | | | | | | | |
| | Total | **9767.52** | | | | | | | |
| 20 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix **M10** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (I-4.2 P-12 of KPWD SR 2013-14) | | | | | | | | |
| | Concrete Road | **Cum** | 1 | 195.0 | 0.45 | 0.10 | 8.78 | | |
| | Concrete Cross Cutting | | 70 | 7.0 | 0.45 | 0.10 | 22.05 | | |
| | | | | | | **Total** | **30.83** | **4497.12** | **138624.00** |
| | Basic Rate | **4164.00** | | | | | | | |
| | Area weightage @ 8% | 333.12 | | | | | | | |
| | Total | **4497.12** | | | | | | | |

| Sl. No. | Description | Unit | Dimensions No. | L. | B. | D | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 21 | CRB 4-1.5 : Providing and laying in position plain cement concrete of mix **M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (I-4.5 P-12 of KPWD SR 2013-14) | | | | | | | | |
| | Concrete Road | **Cum** | 1 | 195.0 | 0.45 | 0.15 | 13.16 | | |
| | Concrete Cross Cutting | | 70 | 7.0 | 0.45 | 0.15 | 33.08 | | |
| | | | | | | **Total** | **46.24** | **5323.32** | **246137.00** |
| | *Basic Rate* | ***4929.00*** | | | | | | | |
| | Area weightage @ 8% | 394.32 | | | | | | | |
| | Total | **5323.32** | | | | | | | |
| 22 | Conveying the excavated earth silt debris and over burden earth etc., to a lead of upto 9 to 10 Kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete | | | | | | | | |
| | Asphalt Road | **Cum** | 1 | 2000.00 | 0.45 | 0.30 | 270 | | |
| | Concrete Road | | 1 | 195.00 | 0.45 | 0.25 | 21.9375 | | |
| | Asphalt Cross Cutting | | 320 | 7.50 | 0.45 | 0.30 | 324 | | |
| | Concrete Cross Cutting | | 70 | 7.00 | 0.45 | 0.25 | 55.125 | | |
| | | | | | | **Total** | **671.06** | **94.82** | **63633.00** |
| | Basic Rate | **87.80** | | | | | | | |
| | Area weightage @ 8% | 7.02 | | | | | | | |
| | Total | **94.82** | | | | | | | |
| 23 | Miscellaneous and other unforseen charges | | | | | | | L.S. | **120.00** |
| | | | | | | | **TOTAL** | **RS.** | **4993000.00** |

**(Rupees Forty Nine Lakhs Ninty Three Thousand only)**

**CERTIFICATE**

1) The work spot has been inspected and the work is found to be necessary.
2) This estimate is prepared as per C.S.R. of 2013-14 and as per rate analysis.
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.

**Asst.Engineer**
**Ward no.17**

**Assistant Executive Engineer**
**Yeshwanthpura Sub-Division**
**Bruhat Bengaluru Mahanagara Palike**

**Executive Engineer**
**R.R.Nagara Division**
**Bruhat Bengaluru Mahanagara Palike**

## ADMINISTRATIVE APPROVE

Rs : 49,93,000/- (Fourty nine lakh Ninety Three thousand) is accorded under the head : .....

By AC (R.R.N.) : Sl.No. 2259

Vide Register Page No. 242-243 subject to conditions contained in inclosed memo No. : AS/2259/13-14 Date : 17/09/13

AC (R.R.N.)

TA,

## TECHNICAL SANCTION

Rs: 49,93,000/- (Fourty Nine Lakhs Ninety Three Thousand) is accorded under the head: .....

By CE(R.R.N.): Sl.No 306 Pg No. 94

Registered as CE (R.R.N.) No: 306 subject to conditions contained in enclosed memo No: 306/13-14 Date: 18/09/13

CE (R.R.N.)

TA,

Name of Work: Providing and laying HDPE waterline in Ganesha temple Block-3 in B.P. Park Ward No.17.